

DESCRIPTION

METHOD FOR PRODUCING BACTERICIDAL PYRIDINE COMPOUND AND

BACTERICIDAL PYRIDINE COMPOUND

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This application is a 371 of PCT/JP04/16540 : 04.

Technical Field

[0001] This invention relates to novel pyridine compounds having microbicidal activities and a process for their industrial production.

Background Art

[0002] Bis-quaternary ammonium compounds which exhibit antimicrobial activities against bacteria, fungi and the like are known for many years, and are still used widely as antimicrobial agents at present. The currently-employed, antimicrobial bis-quaternary ammonium compounds are generally excellent in antimicrobial activities, but at the same time, biodegradation products of these compounds have high residual toxicity. Concerning the actual use of these compounds, they involve problems in the safety to the environment and the solubility and safety to water so that a limitation is imposed on the applicable range thereof. Further, the conventional bis-quaternary ammonium compounds are also accompanied by drawbacks in that their antimicrobial power is competed with saccharides, proteins, lipids and the like; their antimicrobial power is lowered